PATENT COOPERATION TREAT

REC'D 23 SEF 2005 INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below Priority date (day/month/year) International application No. International filing date (day/month/year) PCT/IL2005/000028 09.01.2005 09.01.2004 International Patent Classification (IPC) or both national classification and IPC C12N9/18, A61K38/46 YISSUM RESEARCH DEVELOPMENT COMPANY OF THE... This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☐ Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☑ Box No. III Box No. IV Lack of unity of invention ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL2005/000028

	Box No.	
١.	With rega	ard to the language, this opinion has been established on the basis of the international application in large in which it was filed, unless otherwise indicated under this item.
	lang (unc	opinion has been established on the basis of a translation from the original language into the following uage , which is the language of a translation furnished for the purposes of international search ler Rules 12.3 and 23.1(b)).
2.	With reg necessa	ard to any nucleotide and/or amino acid sequence disclosed in the international application and ry to the claimed invention, this opinion has been established on the basis of:
	a. type o	of material:
	Ø (a sequence listing
		table(s) related to the sequence listing
	b. forma	t of material:
		in written format
	⋈	in computer readable form
	c. time	of filing/furnishing:
		contained in the international application as filed.
	\boxtimes	filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
. ;	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
	4. Additio	nal comments:
	se	e separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL2005/000028

	No. III Non-establishment of icability	f opin	ion with regard to novelty, inventive step and industrial						
The obvio	questions whether the claimed i ous), or to be industrially applica	nventi ible ha	ion appears to be novel, to involve an inventive step (to be non ave not been examined in respect of:						
	the entire international application,								
\boxtimes	claims Nos. 1,3,11-23, 33-57, 58-65								
beca	ause:								
\boxtimes	the said international application matter which does not require a	he said claims Nos. 11-23, 33-57 (IA) relate to the following subject rnational preliminary examination (specify):							
	see separate sheet								
⊠	the description, claims or drawi 1,3,11,33,46,65 are so uncle	ngs <i>(ii</i> ar tha	ndicate particular elements below) or said claims Nos. t no meaningful opinion could be formed (specify):						
	see separate sheet								
×	the claims, or said claims Nos. 1,3,11,33,46,65 are so inadequately supported by the description that no meaningful opinion could be formed.								
\boxtimes	to the state of the whole application or for said claims Nos. 5								
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:								
	the written form		has not been furnished						
		□.	does not comply with the standard						
	the computer readable form		has not been furnished						
			does not comply with the standard						
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form on not comply with the technical requirements provided for in Annex C-bis of the Administrative Instruction								
\boxtimes	See separate sheet for further	detail	ds .						

. WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL2005/000028

			·							
	Вох	No. IV	Lack of unity of in	vention						
1.	\boxtimes	In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:								
			□ paid additional fees.							
			□ paid additional fees under protest.							
		\boxtimes	not paid additional fees.							
2.		the app	uthority found that the requirement of unity of invention is not complied with and chose not to invite plicant to pay additional fees.							
3.	Thi	This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is								
	☐ complied with									
	\boxtimes	□ not complied with for the following reasons:								
		see separate sheet								
4.	Consequently, this report has been established in respect of the following parts of the international application:									
		☐ ail parts.								
	\boxtimes	☑ the parts relating to claims Nos. 1-57,65-77								
_	Bo	x No. V dustrial	Reasoned statem applicability; citation	ent undens and e	er Rule 43 xplanation	bis.1(a)(I) with regard to novelty, inventive step or as supporting such statement				
1.	St	atement	:							
	No	ovelty (N	I)	Yes: No:	Claims Claims	2-57, 65-77 1				
	ln	ventive :	step (IS)	Yes: No:	Claims Claims	5,11-57,65-77 1-4,6-10				
	In	dustrial	applicability (IA)	Yes: No:	Claims Claims	1-10,24-32,65-77				
2	. C	itations :	and explanations			·				

see separate sheet

PCT/IL2005/000028

Additional remarks to item I

This first written opinion was established on the application documents as filed.

Additional remarks to item III

I. Claims 11-23 and 33-57 relate to a subject matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

In addition, the attention of the Applicant is drawn to the fact that no unified criteria exist in PCT for assessment of patentable inventions. The EPO, for example, considers that claims 11-23 and 33-57 as far as they concern a medical treatment relates to a subject-matter considered by the Examining Division of the EPO to be covered by the provisions of Rule 52(4) EPC. Consequently, in an eventual subsequent examination in regional phase, this invention would not be considered as being susceptible of industrial application.

ii. Present claims 1, 3, 33, 46 and 65 relate to a product (a BchE derived peptide) defined by reference to a desirable characteristic or property, namely, the capability of preventing and/or reversing amyloid fibril formation.

The claims cover all products having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only one BchE derived peptide. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the peptide having the sequence as forth in SEQ ID No 1.

Additional remarks to item IV

The objection as lack of unity raised in the international search report (ISR) is maintained. The reasons for the objection are the same as those indicated in the ISR.

As the Applicant has not had a search report drawn up on invention 2 (Rule 66.2 PCT), the application will be prosecuted on the basis of the invention in respect of which a search has already been carried out, in the present case invention 1.

Additional remarks to item V

The following document is referred to in the present written opinion:

D1: EP-A-1 270 594 (SYNAPTICA LIMITED) 2 January 2003 (2003-01-02)

I. D1 discloses a 42 amino acid long BchE derived peptide that comprises the peptide sequence as set forth in SEQ ID No 1.

The capability of a peptide of preventing or reversing amyloid fibril formation being an intrinsic property of said peptide, this Authority is of the opinion that the peptide shown in D1 is also capable of preventing or reversing amyloid fibril formation. In view of D1, claim 1 lacks novelty (Article 33(2) PCT).

ii. The Applicant merely showed that a 41 amino acid peptide has the claimed property. The capability of the other peptides (SEQ ID No 8 to SEQ ID No 20302) of preventing amyloid fibril formation was not assessed so that this Authority wonders whether said peptides exhibit or not the same property and especially the shortest peptides that are not more than 6 amino acids long.

This Authority is of the opinion that the arbitrary chosen minimum length, namely, 6 residues, is merely based on the fact that 6 residues is the minimum length required in the present case for a peptide to be novel over the prior art.

Said length is not based on the biological activity of said peptides.

As a consequence, the different peptides described in SEQ ID No 8 to SEQ ID No 20302 are considered as being merely further BChE peptides.

Therefore, claim 2 is not inventive (Article 33(3) PCT).

iii. The addition of a peptide to a pharmaceutical composition is a common practice in the art. Hence, claims 3, 4, 6-10 are not inventive.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IL2005/000028

Further comment

The attention of the Applicant is drawn to the fact that a reply to this opinion is only expected if he intends to file a chapter II demand.